

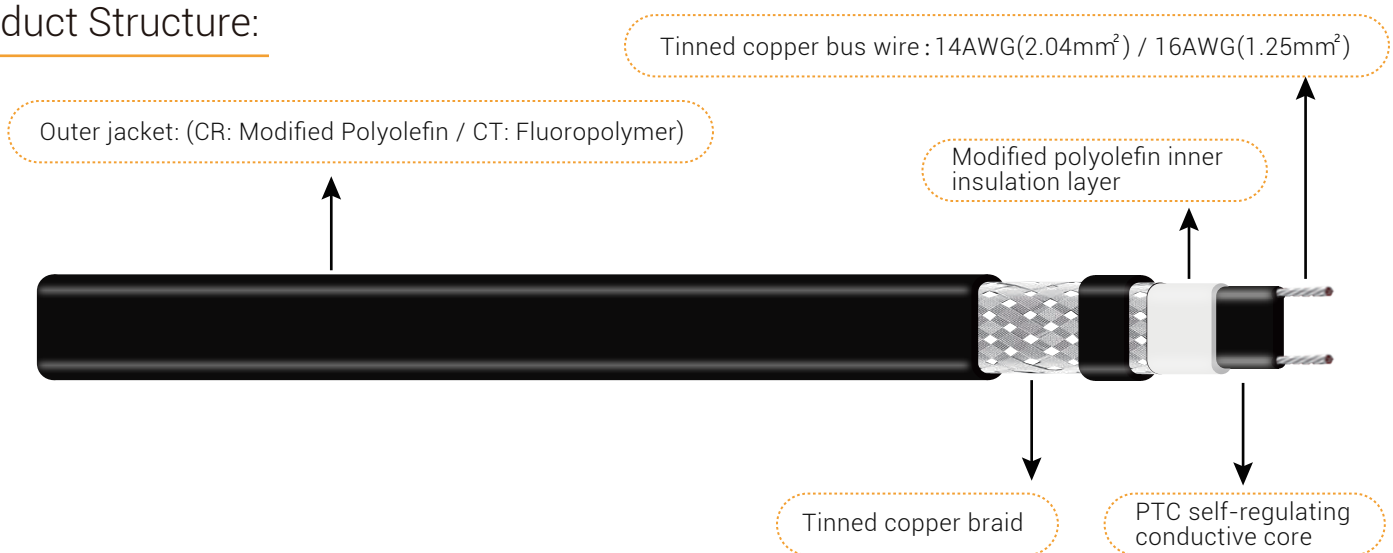


## HTR low temperature self-regulating heating cable

### Overview:

Jiahong HTR low temperature self-regulating heating cable can be used for freeze protection application without steam purge in civil & commercial or industry area, as well as to process temperature maintenance in low level of maximum exposure temperature. The maximum maintenance temperature will be up to 65°C. No matter whether the pipeline is overhead or buried installation, HTR heating cable can maintain the temperature and phase structure of the medium in the pipeline or vessel. HTR heating cable is certified by NEPSI (China), EAC(Russia) and IECEx, ATEX for ex-proof application, as well as to be used in the area which is defined according relative standard.

### Product Structure:



The extruded core tape, which made by parallel tinner copper bus wire and PTC semiconductor polymer heating material, and inner insulation layer of modified polyolefin are added to tinned copper braid and the outer jacket form a complete structure of HTR heating cable, in which the outer jacket can be made of modified polyolefin material (CR) or fluoropolymer material (CT) according to different application or area.

### Product Feature:

- ◆ HTR heating cable is certified by IECEx, ATEX, CSA(Canada), UL(America) NEPSI(China) and EAC(Russia), including explosion-proof application, which can be used in the explosion area and ordinary safety area.
- ◆ According to the characteristics of automatic adjustment of power output based on ambient temperature, it can avoid overheating or burning on heating cable even in the case of overlapping installation; Simultaneously this feature can increase the efficiency of the heat tracing system and reduce energy consumption.
- ◆ It is allowed to cut arbitrarily within the interval specified by the maximum circuit length and connect with compliance accessories.
- ◆ It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product.
- ◆ HTR heating cable has passed a series of test including UV testing according to international standard, which is ensured that the product will not be broken or life reduction due to exposed to the air for a long time without insulation layer installation.










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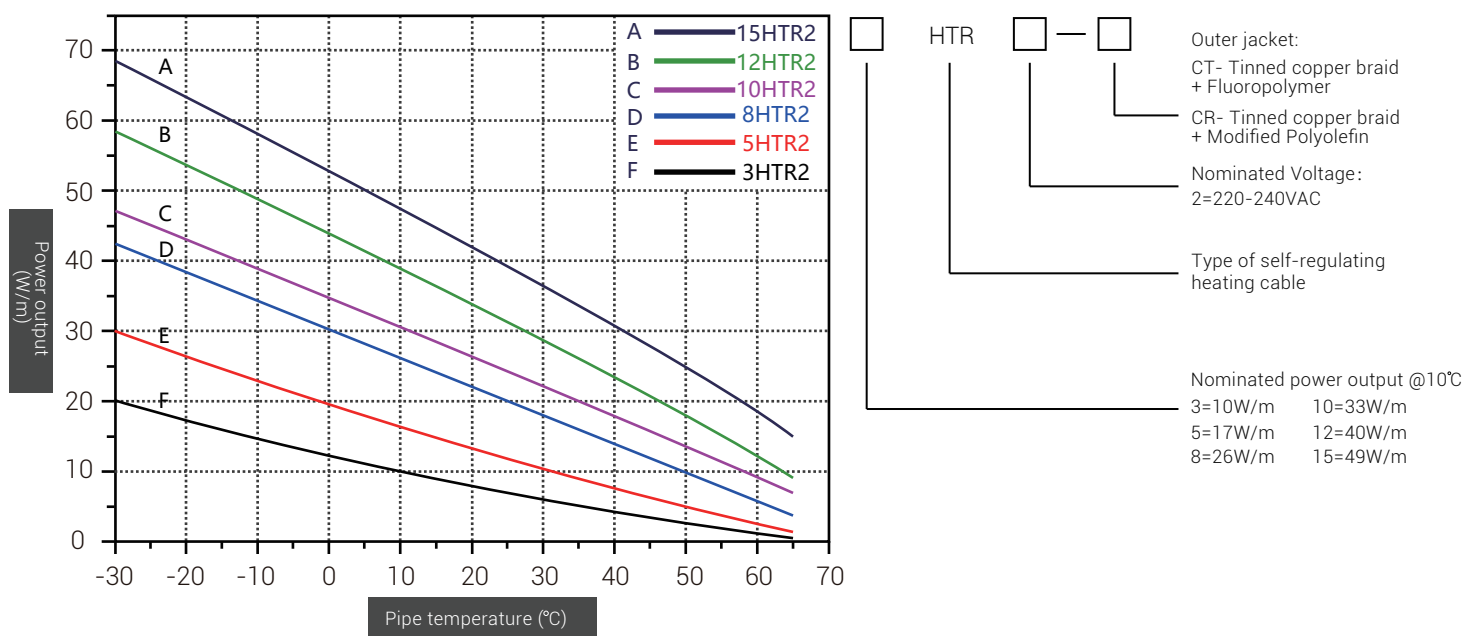




## Technical Specification:

Nominated Voltage:	230V (HTR2)
Maximum maintaince temperature:	+65 °C (150°F)
Maximum intermittent exposure temperature:	+85 °C (185°F)
Temperature classification:	T5/T6
IP level:	IP66/67
Minimum installation temperature:	-60°C(-76°F)
Minimum bending radius:	30mm
Nominated power output @10°C:	10W/m 、 17W/m 、 26W/m 、 33W/m 、 40W/m、 49W/m
Dimension:	CR: 15.4mm(W)x7mm (T) / CT: 14.8mm(W)x6.4mm (T) (Only for 15HTR) CR: 12.56mm(W)x5.96mm (T) / CT: 11.96mm(W)x5.36mm (T) (For other type except 15HTR)
Approvals mark:	      

## Power output curve:



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## 230V voltage level:

Circuit breaker size (A)	Start-up temperature (°C)	Maximum circuit length (m) (Type C circuit breaker based on IEC 60898 standard)					
		3HTR2	5HTR2	8HTR2	10HTR2	12HTR2	15HTR2
16	10	200	162	108	85	60	49
	0	200	148	95	77	54	44
	-10	165	133	85	71	50	41
	-20	155	112	68	65	46	38
	-40	131	86	60	56	40	33
20	10	200	162	118	106	75	61
	0	200	162	108	96	68	56
	-10	200	152	95	88	62	51
	-20	185	141	87	81	58	47
	-40	165	123	76	71	50	41
25	10	200	162	120	115	93	76
	0	200	162	120	115	85	69
	-10	200	162	120	110	78	64
	-20	200	162	120	102	72	59
	-40	189	162	112	88	62	51
32	10	200	162	120	115	102	98
	0	200	162	120	115	102	89
	-10	200	162	120	115	100	81
	-20	200	162	120	115	92	75
	-40	200	162	120	115	80	65
40	10	200	162	120	115	102	100
	0	200	162	120	115	102	100
	-10	200	162	120	115	102	100
	-20	200	162	120	115	102	94
	-40	200	162	120	115	100	81

## Description:

1. The maximum circuit length shown is in accordance with IEC 60898, with Type C circuit breakers as standard, at reference start-up temperature and 10°C. Experimental data obtained from instantaneous trip current characteristics under maintenance temperature conditions. For the maximum loop length corresponding to other trip current characteristics or other types of circuit breakers, please contact the technical representative of Jiahong Company.

2. Although the heat tracing system is generally used to maintain the medium in the pipe or vessel at the required temperature level, the self-regulating heat tracing cable may be at a lower temperature level when it is energized. For design data when the starting temperature is lower than the above temperature, please contact the technical representative of Jiahong Company.

3. Maximum loop length refers to the continuous length of the heating cable, not the sum of the lengths of multiple sections. Relating to current load for each section, please contact the technical representative of Jiahong Company.



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